

Notice of Allowability

Application No.

09/516,082

Examiner

Eugene Lee

Applicant(s)

MURAKAMI ET AL.

Art Unit

2815

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.


1. ☒ This communication is responsive to 12/18/07.
2. ☒ The allowed claim(s) is/are 46, 47, 52, 53, 56, 58, 59, 61, 62, 64, 65, 67, 68, 70, 71, 73, 74, 76-78, 81, 83, 85, 86, 88-90, 92, 93, 95, 96, 98-100, 102, 103, 105, 106, 108, 119, 120, 122, 123, 125, 126, 128-130, 132, 133, 135, 136 and 138-145.
3. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some* c) ☐ None of the:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
- * Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☐ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date 12/18/07
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☐ Examiner's Amendment/Comment
8. ☐ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


EUGENE LEE
PRIMARY EXAMINER

DETAILED ACTION

Allowable Subject Matter

1. Claims 46, 47, 52, 53, 56, 58, 59, 61, 62, 64, 65, 67, 68, 70, 71, 73, 74, 76 thru 78, 81, 83, 85, 86, 88 thru 90, 92, 93, 95, 96, 98 thru 100, 102, 103, 105, 106, 108, 119, 120, 122, 123, 125, 126, 128 thru 130, 132, 133, 135, 136, and 138 thru 145 are allowed. The following is an examiner's statement of reasons for allowance: The references of record, either singularly or in combination, do not teach or suggest at least a semiconductor device comprising: a first conductive layer formed over the interlayer insulating film and electrically connected to one of the source and drain regions of the first thin film transistor through a first opening; a color filter formed over the interlayer insulating film and the first conductive layer, wherein a second opening is formed in the color filter; and a pixel electrode formed over the color filter and electrically connected to the first conductive layer through the second opening, wherein the color filter covers the entire first thin film transistor and the entire semiconductor film except an area where the second opening is formed, and wherein the second opening does not overlap the first opening.

Regarding claims 52, 58, 61, and all depending claims, the references of record, either singularly or in combination, do not teach or suggest at least a semiconductor device comprising: a first conductive layer formed over the first interlayer insulating film and electrically connected to one of the source and drain regions of the first thin film transistor through a first opening; a color filter formed over the passivation film, wherein a second opening is formed in the color filter; and a pixel electrode formed over the color filter and electrically connected to the first conductive layer through the second opening,

wherein the color filter covers the entire first thin film transistor and the entire semiconductor film except an area where the second opening is formed, and wherein the second opening does not overlap the first opening.

Regarding claims 56, 59, and all depending claims, the references of record, either singularly or in combination, do not teach or suggest at least a semiconductor device comprising: a first conductive layer formed over the interlayer insulating film and electrically connected to one of the source and drain regions of the first thin film transistor through a first opening; a color filter formed over the interlayer insulating film, the first conductive layer and the first thin film transistor, wherein a second opening is formed in the color filter; and a pixel electrode formed over the color filter and electrically connected to the first conductive layer through the second opening, wherein the color filter covers the entire first thin film transistor and the entire semiconductor film except an area where the second opening is formed, and wherein the second opening does not overlap the first opening.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

INFORMATION ON HOW TO CONTACT THE USPTO

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Eugene Lee whose telephone number is 571-272-1733. The examiner can normally be reached on M-F 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kenneth Parker can be reached on 571-272-2298. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Eugene Lee
January 3, 2008

A handwritten signature in black ink, appearing to be 'E. Lee', with a large, stylized loop at the end.

EUGENE LEE
PRIMARY EXAMINER